



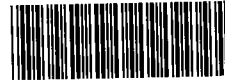
I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
EAST CHICAGO, INDIANA 46312

bcc: Skip Bunner, IDEM, Gary
Robert Tolpa, USEPA, Chgo.

CHEMICALS AND PIGMENTS DEPARTMENT

December 11, 1990

US EPA RECORDS CENTER REGION 5



1002991

Dear Du Pont Community Environmental Advisory Committee Member,

As you know, we are deeply committed to making certain that the East Chicago community and, especially the, Riley Park residents, are kept fully informed about the progress of our groundwater assessment program.

For that reason, we are planning to hold a public meeting on December 19 for our Riley Park neighbors to share new data we have received. I'm writing today to give you a preview of the very encouraging information we will release at that meeting.

First, let me summarize for you some recent history:

1. GROUNDWATER USE - in September, we conducted a door-to-door survey to determine the nature and extent of groundwater usage in Riley Park. We were particularly interested in the location of wells and sumps that might have an effect on the direction and rate of groundwater flow.
2. SEWER SYSTEM EFFECT ON FLOW - Next, we conducted a survey of the sewer system in Riley Park to assess the effect of the system on groundwater flow in the area.
3. GROUNDWATER QUALITY - Finally, we took samples from sewers and sumps to determine the quality of groundwater in the area. Parameters measured are shown in the attached table. There are no Federal Standards for groundwater quality so levels measured were compared to the Federal Drinking Water Standards, even though, as noted below, Riley Park residents do not use groundwater for drinking or any other purpose.

Here are the results of these studies:

1. GROUNDWATER USE - Of the 454 residences and businesses in the area surveyed, approximately 80 percent responded. The survey and information obtained from the City of East Chicago for the 20 percent that did not respond indicated that all residents are supplied with municipal water from Lake Michigan. No drinking water wells were found. Of the four wells found, one well is being used to remove basement seepage and three others are inactive. None was ever used for drinking water. A number of residences reported that their basements flood regularly due to the high water table. Most use sump pumps to remove the water, while others use mops and vacuums. About a third of this water is discharged to the sewer system, about a third is

discharged to the ground surface, and other residents don't know where the water goes. Many of the residents reported that their sump pumps run continuously. Continuous pumping influences groundwater depth, flow direction and flow rate.

2. SEWER SYSTEM EFFECT ON FLOW - The sewer pipelines that run along Grasselli Avenue, Drummond Street, Carey Street, Euclid Avenue, Ivy Street and Parrish Avenue are approximately 3 to 11 feet below the groundwater level. These pipes also leak. Because they are submerged in the groundwater, they act as drains, so they intercept and remove groundwater from the shallow water table.

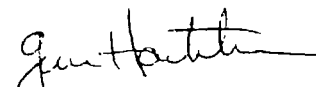
3. GROUNDWATER QUALITY - Groundwater in the 4800 block sewers of Riley Park (farther away from the Du Pont property than the 4900 block) contained the lowest levels of the chemicals tested (arsenic, cadmium, chloride, copper, fluoride, iron, magnesium, sulfate and zinc). In fact none of these levels found exceeded federal primary (Health Based) drinking water standards for chemicals tested. Groundwater in the 4900 block sewers contained higher levels of arsenic, cadmium, fluoride, iron, magnesium, sulfate and zinc than samples from the 4800 block, but again groundwater is not being used for drinking purposes or any other use. All of the basement sumps tested were within Primary Drinking Water Standards for chemicals tested.

Finally, although groundwater migrating from Du Pont property probably contributes to the water quality conditions we found, other sources may be contributing factors. For example, iron slag which was reportedly used as fill material in Riley Park, contains arsenic, iron, magnesium, sulfate and zinc.

We plan to cover results of the three studies discussed briefly above in detail at the community meeting on December 19, but I wanted to give you a preview of this very encouraging and reassuring information prior to the meeting.

I would be happy to discuss any questions or concerns you may have. In the meantime, if I don't hear from you or if you can't attend the meeting, best wishes to you and your family for a safe, healthy and happy holiday season.

Sincerely,



Gene Hartstein, Plant Manager
Du Pont East Chicago Plant

Table 1.
Summary of Water Quality Results
by Location

Location:	Chemical Concentrations (mg/l)											
	4800 Block Sewer of Riley Park			4900 Block Sewer of Riley Park			Sumps, Southern Half 4900 Blocks of Riley Park			Northern Portion of Du Pont Facility*		
Chemical	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average
Arsenic	0.003	0.022	0.008	0.03	0.20	0.09	ND	0.028	<0.006	0.01	0.40	0.21
Cadmium	ND	ND	ND	ND	0.011	<0.007	ND	ND	ND	ND	0.013	<0.006
Chloride	66	94	83	28	64	42	8	100	30	18	108	67
Copper	ND	ND	ND	ND	0.02	ND	ND	0.02	ND	ND	ND	ND
Fluoride	1.1	1.5	1.3	1.7	3.8	2.7	1.4	3.5	2.2	3	8	5.3
Iron	0.25	1.11	0.56	2.35	7.09	5.12	0.1	17.4	4.02	11.7	61.4	30.1
Magnesium	17	28	21	22	48	28	13	48	23	17.8	24.3	20.7
Sulfate	110	200	142	400	1100	850	480	1510	942	1100	1810	1542
Zinc	ND	0.006	<0.006	0.014	1.5	0.41	0.042	9.52	1.3	0.049	7.46	3.07

* Based on water quality results for MW-1, MW-10, and MW-11

ND Means not detected above the laboratory method detection limit

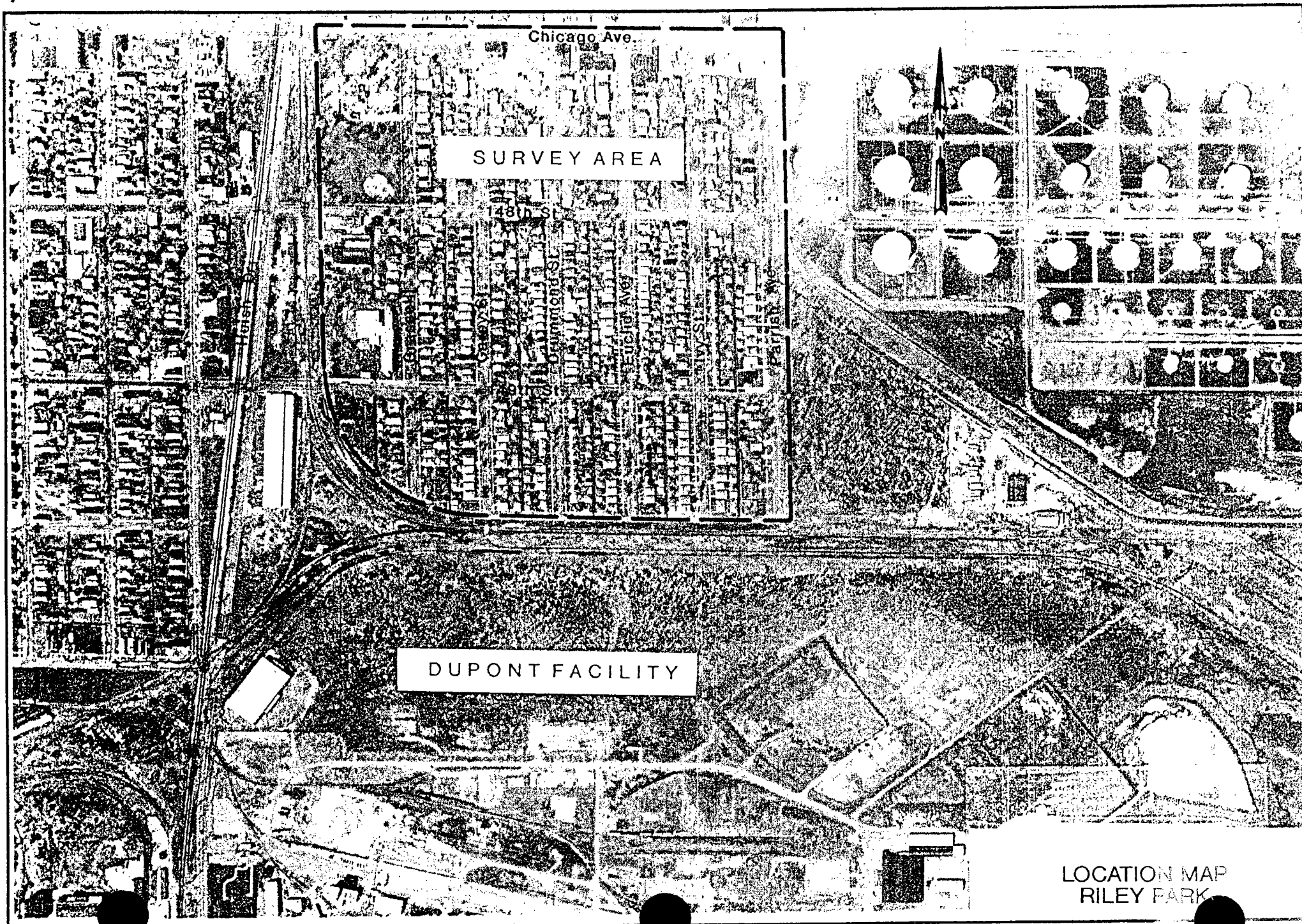
Standards:

Primary drinking water standards:
(Health-based standards)

Arsenic at 0.050 mg/l
Cadmium at 0.01 mg/l
Fluoride at 4 mg/l

Secondary drinking water standards:
(Not health-based standards; based on odor, taste, etc.)

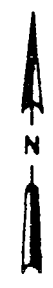
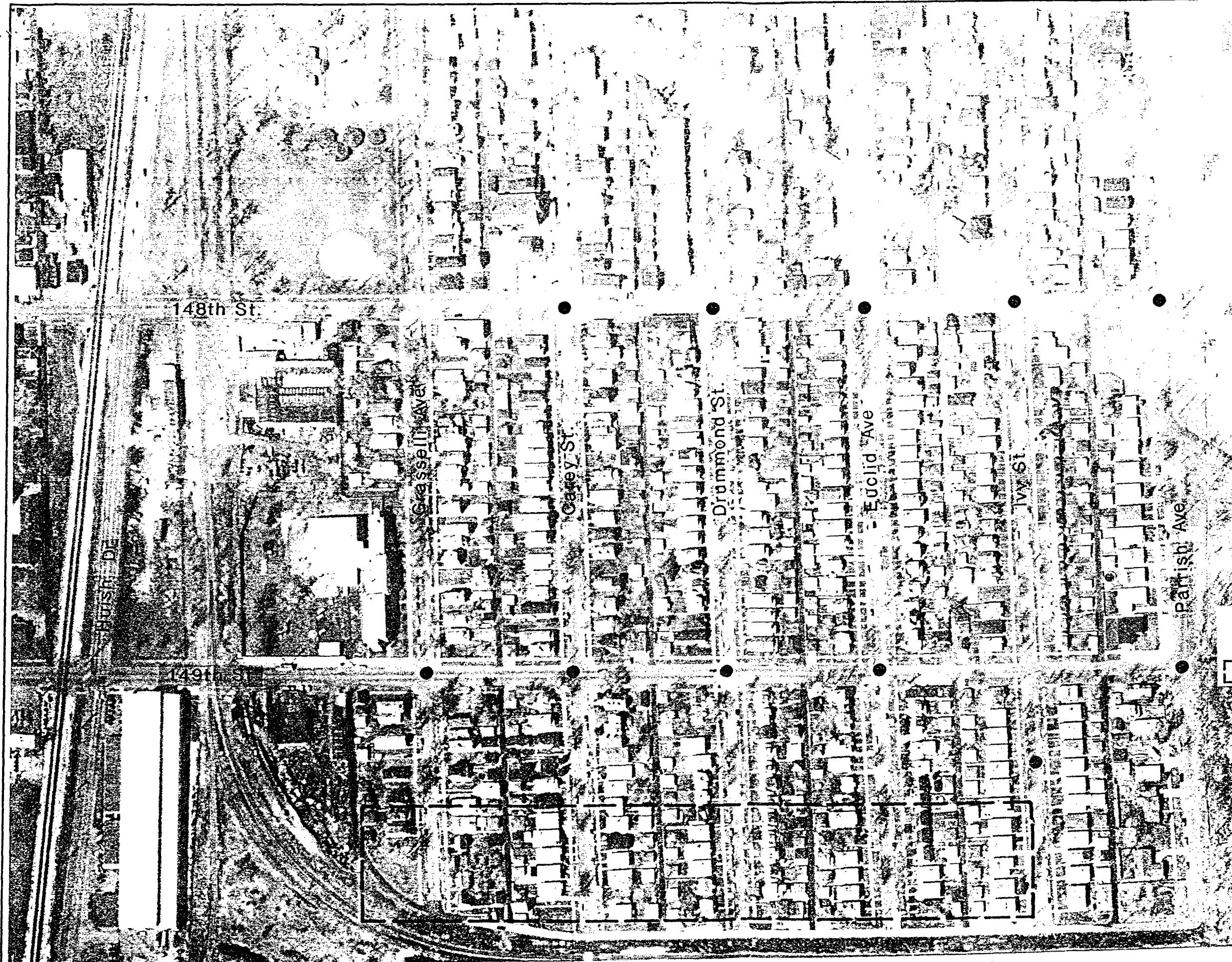
Chloride at 250 mg/l
Fluoride at 2 mg/l
Iron at 0.3 mg/l
Sulfate at 250 mg/l
Zinc at 5 mg/l



SURVEY AREA

DUPONT FACILITY

LOCATION MAP
RILEY PARK



LEGEND

- SEWER MANHOLE SAMPLING LOCATION
- ▭ SUMP SAMPLING AREA

LOCATION MAP
SUMP AND SEWER SAMPLING

Id 605
174 354

5PM-12

9 SEP 1983

Mr. Melvin S. Day
President
Washington Knowledge Network
1201 Quince Orchard Boulevard
Gaithersburg, Maryland 20878

Re: Freedom of Information Act Request
(S) PIR 398-83 (WPH) and (S) PIN 399-83 (WMD)

Dear Mr. Day:

This is a follow-up to our letter of August 10, 1983, in response to your Freedom of Information Act request.

We are enclosing copies of 89 documents concerning 28 facilities. The documents and facilities are identified on the enclosed list.

As advised in our letter, reproduction and search time costs are \$95.00.

Your check for \$45.00 was received in the Financial Management Branch.

Please contact Ms. April Katsura of my staff at (312) WPH-6134, if you have any questions.

Sincerely,

Basil G. Constantelos, Director
Waste Management Division

Enclosures

cc: Illinois Environmental Protection Agency
Indiana State Board of Health
Michigan Department of Natural Resources
Minnesota Pollution Control Agency
Ohio Environmental Protection Agency
Wisconsin Department of Natural Resources

bcc: Ann Brash, OPA
Carol Kavcic, WMD
Jan Hason, FOS
✓ Notification/Part A/Part B files

List of Enclosures

E.I. DuPont De Nemours 3029 N. 112th St. P.O. Box 13005 Milwaukee, WI 53213 WID000713321	N,V	E.I. DuPont De Nemours 2981 Independence Cleveland, OH 44115 OHD004184768	N,V,A,G,F
E.I. DuPont De Nemours 3275 Alum Creek Dr. Columbus, OH 43207 OHD000817569	N,V,S	E.I. DuPont De Nemours 1930 Tremainsville Road Toledo, OH 43613 OHD005041843	N,V,A,G,F
E.I. DuPont De Nemours 11215 Brower Rd North Bend, OH 45052 OHD088656525	N,V,S	E.I. DuPont De Nemours U.S. Rte 23 South P.O. Box. 89 Circleville, OH 43113 OHD004287322	N,V,A,G,F
E.I. DuPont De Nemours 1450 Dublin Road Columbus, OH 43215 OHD095019691	N,V	E.I. DuPont De Nemours 5251 West 74th Street Minneapolis, MN 55435 MND000826339	N,V
E.I. DuPont De Nemours 9200 Midwest Ave. Garfield Heights, OH 44125 OHD047736269	N,V,S	E.I. DuPont De Nemours Main St. P.O. Box 170 Biwabik, MN 55708 MND042649004	N,V,A,S
E.I. DuPont De Nemours 710 Matzinger Rd. P.O.Box 6568 Toledo, OH 43612 OHD990777930	N,V,G	E.I. DuPont De Nemours 19930 Conner Ave. Detroit, MI 48234 MID061865622	N,V,S
E.I. DuPont De Nemours 4330 Allen Road Stow, OH 44224 OHT400013504	N,V,S	E.I. DuPont De Nemours 1060 Hamilton Ave. Flint, MI 48502 MID005512066	A,G,F

N = Notification of Hazardous Waste Activity

A = Application for a Hazardous Waste Permit--Part A

V = Acknowledgement of Notification of Hazardous Waste Activity (Verification)

G = Generator Annual Hazardous Waste Report, 1981

F = Facility Annual Hazardous Waste Report, 1981

S = Status Sheet for Non-Regulated Generators

E.I. DuPont De Nemours 945 Stephenson Highway Troy, MI 48084 MID099124349	N,V,G,F,A	Stepan Chemical Co. Edens and Winnetka Northfield, IL 60093 ILD005130182	N,A,G
E.I. DuPont De Nemours Lamos & Wilkes Roads P.O. Box A Montague, MI 49437 MID000809640	N,V,A,G,F	Reilly Tar & Chemical 3201 Independence Road Cleveland, OH 44105 OHD083320945	N,V,A
E.I. DuPont De Nemours 5215 Kennedy Ave. East Chicago, IN 46312 IND005174354	N,V,A	Reilly Tar & Chemical 1500 South Tibbs Ave. Indianapolis, IN 46241 IND000807107	N,V,A
E.I. DuPont De Nemours 1825 W. 18th Street Indianapolis, IN 46202 IND096181516	N,V	Reilly Tar & Chemical 19th & Edwardsville Rd. P.O. Box 370 Granite City, IL 62040 ILD006278360	N,V
E.I. DuPont De Nemours Madison & Michigan Ave. P.O. Box 38 Fortville, IN 46040 IND980793608	N,V		
E.I. DuPont De Nemours 7828 N. Merrimac Ave. Morton Grove, IL 60053 ILD046579421	N,V	* Hercules, Inc. P.O. Box B Ishpeming, MI 49949	
E.I. DuPont De Nemours 2100 N. Elston Ave. Chicago, IL 60614 ILD004959433	N,V,A	* Reilly Tar & Chemical P.O. Box 467 Willow Station Cleveland, OH 44127	
E.I. DuPont De Nemours DuPont Road P.O. Box 68 Seneca, IL 61360 ILD005467667	N,V,A	* Reilly Tar & Chemical 1510 Market Square Court Indianapolis, IN 46204	
Hercules Inc. National Mine Location Tilden Township, MI 49865 MID041413154	N,V,A,F		
Stepan Chemical Co. R.R. # 1 Elwood, IL 60421 ILD054351770	N,V,A		

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money
FEB 4 1983

5H11

Mr. Robert A. Smith
Regulatory Analyst
JRB Associates, Inc.
8400 Westpark Drive
McLean, Virginia 22102

Re: Freedom of Information Act Request
No. (5)RIN-68-83

Dear Mr. Smith:

Per your letter received February 2, 1983, we are enclosing copies of the Notification of Hazardous Waste Activity for the 11 facilities identified on the enclosed list. Six of the 11 facilities have also submitted an Application for a Hazardous Waste Permit -- Part A. We have enclosed copies of those applications and have identified the six facilities on the enclosed list. We have received no Part B applications from any of the 11 facilities.

We have no records for one of the facilities you requested. It is Vertac Chemical Corporation. Two of the facilities in your request were listed twice. They are Riverdale Chemical Company and Velsicol Chemical Corporation.

There is no charge for search time and duplicating because the furnished records are needed by a United States Environmental Protection Agency contractor to perform the work required under the contract.

Please contact Ms. April Katsura of my staff at (312) 886-6134, if you have any questions.

Sincerely,

Basil G. Constantelos, Director
Waste Management Division

Enclosures

cc: Facilities on the enclosed list (11)
Illinois Environmental Protection Agency
Indiana State Board of Health
Michigan Department of Natural Resources
Ohio Environmental Protection Agency

bcc: Ann Brash (xeroxed copy of letter &
control slip)
Notification/Part A Files

McGean Chemical, Co., c.
2910 Harvard Ave.
Cleveland, OH 44105
OHD077758753

N & A

PPG Industrial, Inc.
95 Columbia Ct.
Barberton, OH 44203
OHD004198917

N & A

Calhio Chemicals, Inc.
3647 Shepard
Perry, OH 44081
OHD004227351

N

Shepherd Chemical Co.
4900 Beech St.
Cincinnati, OH 45212
OHD004234787

N

Guth Corp.
332 S. Center St.
Hillside, IL 60162
ILD068482686

N

Velsicol Chemical Corp.
Route 1
Marshall, IL 62441
ILD000814673

N & A

Riverdale Chemical Co.
220 East 17th St.
Chicago Heights, IL 60411
ILD059446153

N

E.I. Du Pont Nemours & Co.
5215 Kennedy Ave.
East Chicago, IN 46312
IND005174354

N & A

Dow Chemical Co.
Larkin Laboratory
1691 N. Swede Road
Midland, MI 48640
MID000826503

N

Upjohn Company
301 Henrietta St.
Kalamazoo, MI 49001
MID000821520

N & A

Upjohn Company
7171 Portage Road
Kalamazoo, MI 49001
MID000820381

N & A

N = Notification
A = Part A